

**IN THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A system for making quality measurements in a network having a plurality of routers for routing traffic through the network, the system comprising:

a server, wherein the server is configured to:

~~means for taking~~ take measurements on each path of all paths within the network, wherein the each path is between a pair of routers from the plurality of routers;

determine paths of the all paths within the network that have data related to the measurements that falls below a target value;

determine a particular router of the plurality of routers that is associated with the paths that have data related to the measurements that falls below the target value;

determine if the particular router is a connection point for two or more of the paths that have data related to the measurements that falls below the target value; and

means for charging charge, after it is determined that the particular router is the connection point for two or more of the paths that have data related to the measurements that falls below the target value, a single degradation against ~~[[a]]~~ the particular router of the plurality of routers within a path when data related to the measurements falls below a target value even though the particular router is responsible for multiple path failures and tracking a number of degradations for each one of the plurality of routers in the network over a period of time.

2. (Previously Presented) The system of claim 1, wherein the network is a voice over internet protocol network.

3. (Original) The system of claim 1, wherein the data related to the measurements is an R-Factor.
4. (Original) The system of claim 1, further comprising a manual mechanism for entering information into a matrix.
5. (Currently Amended) The system of claim 4, wherein the information comprises at least one of:
  - ~~an indication of a site where a problem occurs;~~
  - ~~an indication of a nature of the problem;~~
  - ~~a start time indicating when the data related to the measurements falls below the target value;~~
  - ~~an end time indicating when the data related to the measurements rises above the target value; and~~
  - ~~an identifier of an individual that reports the problem.~~
6. (Original) The system of claim 4, wherein the matrix includes a matrix of source routers and destination routers.
7. (Previously Presented) The system of claim 6, wherein the matrix includes set events and clear events for one of the source routers and one of the destination routers.
8. (Previously Presented) A method of making quality measurements in a network, the method comprising:
  - monitoring an R-Factor for each path of all paths within the network, wherein the each path is between a pair of routers;
  - tracking a path that exhibits the R-Factor below a target value;
  - tracking a start time indicating when the R-Factor of the path falls below the target value;

tracking an end time indicating when the R-Factor of the path rises above the target value;

determining if an overlap exists between the start time and the end time for multiple paths connecting to a particular router;

charging the particular router connected to the multiple paths with one degradation if the overlap exists;

charging the particular router with each degradation connected to the multiple paths if the overlap does not exist; and

tracking a number of degradations for each router of all routers in the network over a period of time.

9. (Original) The method of claim 8, wherein the target value is 70.

10. (Previously Presented) The method of claim 8, further comprising entering the start time as a set event in a matrix.

11. (Previously Presented) The method of claim 8, further comprising entering the end time as a clear event in a matrix.

12. (Currently Amended) A server for making quality measurements in a network, the server comprising configured to:

~~means for taking~~ take measurements on each path of all paths within the network, wherein the each path is between a pair of routers from the plurality of routers;

determine paths of the all paths within the network that have data related to the measurements that falls below a target value;

determine a particular router of the plurality of routers that is associated with the paths that have data related to the measurements that falls below the target value;

determine if the particular router is a connection point for two or more of the paths that have data related to the measurements that falls below the target value; and

means for charging charge, after it is determined that the particular router is the connection point for two or more of the paths that have data related to the measurements that falls below the target value, a single degradation against [[a]] the particular router of the plurality of routers within a path when data related to the measurements falls below a target value even though the particular router is responsible for multiple path failures and tracking a number of degradations for each one of the plurality of routers in the network over a period of time.

13. (Previously Presented) The server of claim 12, wherein the network is a voice over internet protocol network.

14. (Original) The server of claim 12, wherein the data related to the measurements is an R-Factor.

15. (Original) The server of claim 12, further comprising a manual mechanism for entering information into a matrix.

16. (Currently Amended) The server of claim 15, wherein the information comprises ~~at least one of~~:

~~an indication of a site where a problem occurs[[;]]  
a start time indicating when the data related to the measurements falls below the target value;  
an end time indicating when the data related to the measurements rises above the target value; and  
an identifier of an individual that reports the problem.~~

17. (Previously Presented) The server of claim 15, where the information further comprises an indication of a nature of the problem.

18. (Original) The server of claim 15, wherein the matrix includes a matrix of source routers and destination routers.
19. (Previously Presented) The server of claim 18, wherein the matrix includes set events and clear events for one of the source routers and one of the destination routers.
20. (New) The server of claim 15, wherein the information comprises an identifier of an individual who reports the problem.